NEWS X25 X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 08:36:47 ON 08 JAN 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'REGISTRY' ENTERED AT 08:37:48 ON 08 JAN 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JAN 2007 HIGHEST RN 916885-50-2
DICTIONARY FILE UPDATES: 7 JAN 2007 HIGHEST RN 916885-50-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

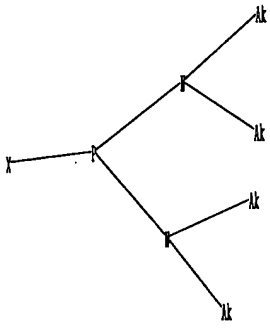
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

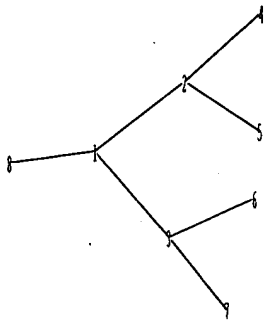
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10539210a.str





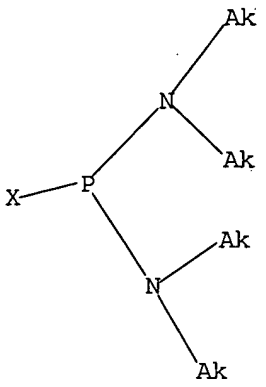
chain nodes :
1 2 3 4 5 6 7 8
chain bonds :
1-2 1-3 1-8 2-4 2-5 3-6 3-7

exact/norm bonds :
1-2 1-3 2-4 2-5 3-6 3-7
exact bonds :
1-8

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



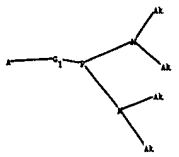
Structure attributes must be viewed using STN Express query preparation.

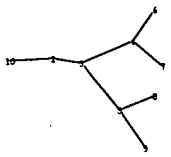
=> s l1 full
FULL SEARCH INITIATED 08:38:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5868 TO ITERATE

100.0% PROCESSED 5868 ITERATIONS 1418 ANSWERS
SEARCH TIME: 00.00.01

L2 1418 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10539210.str





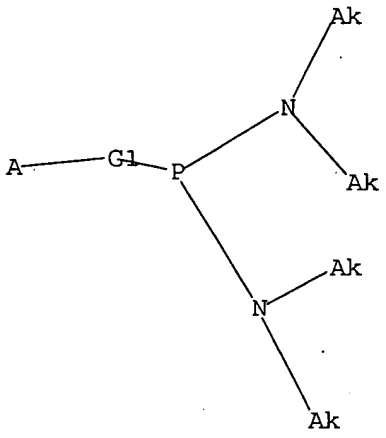
chain nodes :
2 3 4 5 6 7 8 9 10
chain bonds :
2-3 2-10 3-4 3-5 4-6 4-7 5-8 5-9
exact/norm bonds :
2-3 2-10 3-4 3-5 4-6 4-7 5-8 5-9

G1:O,S

Match level :
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l3 full
FULL SEARCH INITIATED 08:38:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 33951 TO ITERATE

100.0% PROCESSED 33951 ITERATIONS 2529 ANSWERS
SEARCH TIME: 00.00.01

L4 2529 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 343.75 344.17

FILE 'CAPLUS' ENTERED AT 08:38:34 ON 08 JAN 2007
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FILE COVERS 1907 - 8 Jan 2007 VOL 146 ISS 3
FILE LAST UPDATED: 7 Jan 2007 (20070107/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l2 and l4
1654 L2
3010 L4

```
L5          381 L2 AND L4

=> s l5 and alcohol
         257867 ALCOHOL
         169308 ALCOHOLS
         395298 ALCOHOL
                  (ALCOHOL OR ALCOHOLS)
         583314 ALC
         192399 ALCS
         681236 ALC
                  (ALC OR ALCS)
         834779 ALCOHOL
                  (ALCOHOL OR ALC)
L6           40 L5 AND ALCOHOL

=> s l5 and ?anol
         764747 ?ANOL
L7           69 L5 AND ?ANOL

=> d l6 1-10
```

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:471844 CAPLUS
DN 143:28318
TI Micronized wood preservative formulations
IN Leach, Robert M.; Zhang, Jun
PA USA
SO U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005118280	A1	20050602	US 2004-970446	20041021
	US 2004258767	A1	20041223	US 2004-821326	20040409
	WO 2006047126	A2	20060504	WO 2005-US37303	20051018
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 2006257578	A1	20061116	US 2006-354726	20060215
PRAI	US 2003-461547P	P	20030409		
	US 2003-518994P	P	20031111		
	US 2004-821326	A2	20040409		
	US 2004-568485P	P	20040506		
	US 2004-565585P	P	20040427		
	US 2004-570659P	P	20040513		
	US 2004-970446	A	20041021		
	US 2005-126839	A2	20050511		

L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:971591 CAPLUS
DN 140:28164
TI Process for preparation of block polymers by radical polymerization controlled with dithiophosphate esters
IN Destarac, Mathias; Leising, Frederic; Taton, Daniel; Dureault, Alex; Gnanou, Yves; Majoral, Jean Pierre; Marchand, Patrice; Caminade, Anne Marie
PA Rhodia Chimie, Fr.
SO Fr. Demande, 38 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2840613	A1	20031212	FR 2002-7022	20020607
	WO 2003104288	A1	20031218	WO 2003-FR1705	20030606
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003251114	A1	20031222	AU 2003-251114	20030606
PRAI	FR 2002-7022	A	20020607		
	WO 2003-FR1705	W	20030606		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:509532 CAPLUS
DN 137:201392
TI Design, Synthesis, and Biological Evaluation of Indolequinone Phosphoramidate Prodrugs Targeted to DT-diaphorase
AU Hernick, Marcy; Flader, Carolee; Borch, Richard F.
CS Department of Medicinal Chemistry and Molecular Pharmacology and the Cancer Center, Purdue University, West Lafayette, IN, 47907, USA
SO Journal of Medicinal Chemistry (2002), 45(16), 3540-3548
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:201392
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:200702 CAPLUS
DN 136:349749
TI The first iminoamidophosphite ligand: synthesis and complexation with rhodium(I)
AU Gavrilov, K. N.; Bondarev, O. G.; Polosukhin, A. I.; Lyubimov, S. E.; Tzarev, V. N.
CS Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, 117813, Russia
SO Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2002), 28(2), 143-145
CODEN: RJCCEY; ISSN: 1070-3284
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
OS CASREACT 136:349749
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2000:376020 CAPLUS
DN 133:164102
TI Fluorinated phosphorus compounds. Part 1. The synthesis and reactions of some fluoroalkyl phosphoryl compounds
AU Timperley, C. M.; Bird, M.; Broderick, J. F.; Holden, I.; Morton, I. J.; Waters, M. J.
CS Chemical and Biological Defence Sector, Defence Evaluation and Research Agency, Salisbury, Wiltshire, SP4 0JQ, UK
SO Journal of Fluorine Chemistry (2000), 104(2), 215-223
CODEN: JFLCAR; ISSN: 0022-1139
PB Elsevier Science S.A.
DT Journal
LA English
OS CASREACT 133:164102
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1997:181081 CAPLUS
DN 126:186316
TI Preparation of L-ascorbic acid 2-phosphate α-hydroxy acid esters having excellent storage stability
IN Morizaki, Kazuo; Sasaki, Masanao; Ozaki, Shoichiro; Watanabe, Yutaka
PA Kanto Denka Kogyo Kk, Japan; Ozaki Shoichiro
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09020790	A	19970121	JP 1995-167638	19950703
	JP 3619287	B2	20050209		
PRAI	JP 1995-167638		19950703		

OS MARPAT 126:186316

L6 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1995:868733 CAPLUS
DN 124:87148
TI Reaction of tervalent phosphorus compounds with sterically hindered N-chloroamines
AU Kolodiazhnyi, Oleg I.; Golovatyi, Oleg R.
CS Inst. of Bioorganic Chemistry, National Academy of Sciences of Ukraine, Kiev, 253094, Ukraine
SO Phosphorus, Sulfur and Silicon and the Related Elements (1995), 102(1-4), 133-41
CODEN: PSSLEC; ISSN: 1042-6507
PB Gordon & Breach
DT Journal
LA English
OS CASREACT 124:87148

L6 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1995:273379 CAPLUS
DN 123:112591
TI Use of Npe-protecting groups for the preparation of oligodeoxyribonucleotides without using nucleophiles during the final deprotection
AU Avino, Anna Maria; Eritja, Ramon
CS CID, CSIC, Barcelona, 08034, Spain
SO Nucleosides & Nucleotides (1994), 13(10), 2059-69
CODEN: NUNUD5; ISSN: 0732-8311
PB Dekker
DT Journal
LA English
OS CASREACT 123:112591

L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1994:269228 CAPLUS
DN 120:269228
TI A convenient method for the transformation of alcohols into alkyl trifluoromethyl sulfides
AU Kolomeitsev, A. A.; Chabanenko, K. Yu.; Roeschenthaler, G. V.; Yagupolskii, Yu. L.
CS Inst. Org. Chem., Kiev, 253660, Ukraine
SO Synthesis (1994), (2), 145-6
CODEN: SYNTBF; ISSN: 0039-7881
DT Journal
LA English
OS CASREACT 120:269228

L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1994:107134 CAPLUS
DN 120:107134
TI Transformations of thiocyanoalkyl phosphites and amidophosphites
AU Nuretdinova, O. N.; Novikova, V. G.; Troitskaja, L. B.
CS A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia
SO Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2673-5
CODEN: IASKEA; ISSN: 1026-3500
DT Journal
LA Russian
OS CASREACT 120:107134

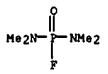
=> d l6 1-10 ibib abs hitstr

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:471844 CAPLUS
DOCUMENT NUMBER: 143:28318
TITLE: Micronized wood preservative formulations
INVENTOR(S): Leach, Robert M.; Zhang, Jun
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

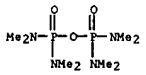
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005118280	A1	20050602	US 2004-970446	20041021
US 2004258767	A1	20041223	US 2004-821326	20040409
WO 2006047126	A2	20060504	WO 2005-US37303	20051018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006257578	A1	20061116	US 2006-354726	20060215
PRIORITY APPLN. INFO.:			US 2003-461547P	P 20030409
			US 2003-518994P	P 20031111
			US 2004-821326	A2 20040409
			US 2004-568485P	P 20040506
			US 2004-565585P	P 20040427
			US 2004-570659P	P 20040513
			US 2004-970446	A 20041021
			US 2005-126839	A2 20050511

AB The wood preservative compns. comprising micronized particles. The composition
comprises dispersions of micronized metal or metal compds. The wood preservative composition comprises an inorg. component comprising a metal or metal compound and organic biocide. When the composition comprises an inorg.
component and an organic biocide, the inorg. component or the organic biocide or
both are present as micronized particles. When used for preservation of wood, the micronized particles can be observed as uniformly distributed within the wood and there is minimal leaching of the metal and biocide from the wood.
IT 115-26-4, Dimefox 152-16-9, Schradan
RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)
(micronized wood preservative formulations comprising inorg. metal compds. and organic biocides)
RN 115-26-4 CAPLUS
CN Phosphorodiamidic fluoride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



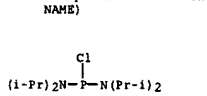
RN 152-16-9 CAPLUS
CN Diphosphoramide, octamethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:971591 CAPLUS
DOCUMENT NUMBER: 140:28164
TITLE: Process for preparation of block polymers by radical polymerization controlled with dithiophosphate esters
INVENTOR(S): Destarac, Mathias; Leising, Frederic; Taton, Daniel; Dureault, Alex; Gnanou, Yves; Majoral, Jean Pierre; Marchand, Patrice; Caminade, Anne Marie
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
SOURCE: Fr. Demande, 38 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

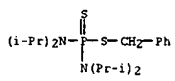
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2840613	A1	20031212	FR 2002-7022	20020607
WO 2003104288	A1	20031218	WO 2003-FR1705	20030606
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003251114	A1	20031222	AU 2003-251114	20030606
PRIORITY APPLN. INFO.:			FR 2002-7022	A 20020607
			WO 2003-FR1705	W 20030606

AB The block copolymers are prepared through a 1st stage by radical polymerization of
a mixture containing ≥1 unsatd. monomer, a free radical initiator, and ≥1 dithiophosphoro ester compound having ≥1 P-N bonding to
give a living polymer which can be further polymerized to a block copolymer. An example of such dithiophosphoro ester is Ph2NP(S)(SCH2Ph)2 (preparation given).
IT 56183-63-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of block polymers by radical polymerization controlled
with dithiophosphate esters)
RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



IT 632285-75-7P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(telogen; process for preparation of block polymers by radical polymerization

L6 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
controlled with dithiophosphate esters)
RN 632285-75-7 CAPLUS
CN Phosphorodiamidodithioic acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

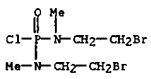
L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:509532 CAPLUS
DOCUMENT NUMBER: 137:201392
TITLE: Design, Synthesis, and Biological Evaluation of Indolequinone Phosphoramidate Prodrugs Targeted to DT-diaphorase
AUTHOR(S): Hernick, Marcy; Flader, Carolee; Borch, Richard F.
CORPORATE SOURCE: Department of Medicinal Chemistry and Molecular Pharmacology and the Cancer Center, Purdue University, West Lafayette, IN, 47907, USA
SOURCE: Journal of Medicinal Chemistry (2002), 45(16), 3540-3548
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:201392

AB 2- And 3-substituted indolequinone phosphoramidate prodrugs targeted to DT-diaphorase (DTD) were synthesized and evaluated. These compds. (e.g. (5-methoxy-1-methyl-4,7-indolequinon-2-yl)methyl N,N-bis(2-bromoethyl)phosphorodiamidate) are designed to undergo activation via quinone reduction by DTD followed by expulsion of the phosphoramide mustard substituent from the hydroquinone. Chemical reduction of the phosphoramidate prodrugs led to rapid expulsion of the corresponding phosphoramidate anions in both series of compds. Compds. substituted at the 2-position are excellent substrates for human DTD (kcat/KM = (2-5) + 10^6 M-1 s-1); however, compds. substituted at the 3-position are potent inhibitors of the target enzyme. Both series of compds. are toxic in HT-29 and BE human colon cancer cell lines in a clonogenic assay. There was a correlation found between cytotoxicity and DTD activity for the 2-series of phosphoramidates; however, there was no correlation between cytotoxicity and DTD activity in the 3-series of compds. This finding suggests an alternative mechanism for the activation of these compds.

IT 452971-56-1, N,N'-Bis(2-bromoethyl)-N,N'-dimethylphosphorodiamidic chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation with hydroxymethyl-substituted indoledione)

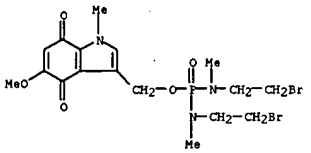
RN 452971-56-1 CAPLUS
CN Phosphorodiamidic chloride, N,N'-bis(2-bromoethyl)-N,N'-dimethyl- (9CI) (CA INDEX NAME)



IT 318974-70-8P
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and evaluation of indolequinone phosphoramidates as prodrug targeted to DT-diaphorase)

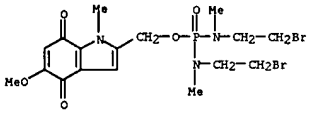
RN 318974-70-8 CAPLUS
CN Phosphorodiamidic acid, N,N'-bis(2-bromoethyl)-N,N'-dimethyl-, (4,7-dihydro-5-methoxy-1-methyl-4,7-dioxo-1H-indol-3-yl)methyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 318974-72-0P
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and evaluation of indolequinone phosphoramidates as prodrug targeted to DT-diaphorase)

RN 318974-72-0 CAPLUS
CN Phosphorodiamidic acid, N,N'-bis(2-bromoethyl)-N,N'-dimethyl-, (4,7-dihydro-5-methoxy-1-methyl-4,7-dioxo-1H-indol-2-yl)methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

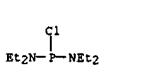
L6 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:200702 CAPLUS
DOCUMENT NUMBER: 136:349749
TITLE: The first iminoamidophosphite ligand: synthesis and complexation with rhodium(I)
AUTHOR(S): Gavrilov, K. N.; Bondarev, O. G.; Polosukhin, A. I.; Lyubimov, S. E.; Tzarev, V. N.
CORPORATE SOURCE: Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, 117813, Russia
SOURCE: Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2002), 28(2), 143-145
CODEN: RJCCEY; ISSN: 1070-3284
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:349749

AB Optically active amidophosphite with the peripheral imino group (R)-(Et2N)2POCH2CH(Et)N=CHPh (PN) was synthesized through 1-stage phosphorylation of the corresponding imino alc. Its reaction with [Rh(CO)2Cl]2 (at P: Rh = 1) yields the mononuclear chelate [Rh(CO)(PN)Cl]. Structures of the compds. are determined by IR, 31P, and 13C NMR spectroscopy, mass spectrometry, and polarimetry.

IT 685-83-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(for preparation of iminoamidophosphite and its rhodium complex)

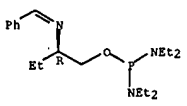
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 418779-53-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with rhodium)

RN 418779-53-0 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, (2R)-2-[(phenylmethylene)amino]butyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

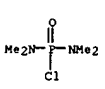
L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:376020 CAPLUS
DOCUMENT NUMBER: 133:164102
TITLE: Fluorinated phosphorus compounds. Part 1. The synthesis and reactions of some fluoroalkyl phosphoryl compounds
AUTHOR(S): Timperley, C. M.; Bird, M.; Broderick, J. F.; Holden, I.; Morton, I. J.; Waters, M. J.
CORPORATE SOURCE: Chemical and Biological Defence Sector, Defence Evaluation and Research Agency, Salisbury, Wiltshire, SP4 0JQ, UK
SOURCE: Journal of Fluorine Chemistry (2000), 104(2), 215-223
CODEN: JFLCAR; ISSN: 0022-1139
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:164102

AB Fluoroalkyl phosphorochloridates CF3CH2OP(O)Cl2 and (RFCH2O)2P(O)Cl (RF = CF3, C2F5) were prepared from phosphorus oxychloride, fluoroalcs. and triethylamine, but selective substitution was difficult. Phosphates (RFCH2O)2P(O)OR (RF = CF3, C2F5 and R = Me, Et, n-Pr, i-Pr) were isolated in yields of 38-84% from the reactions of the phosphorochloridates with alcs. and triethylamine. Success of the inverse reaction, i.e., ROP(O)Cl2 and RFCH2OH, depended on the R group (Me, Et) and the RF group (CF3, C2F5). The phosphates did not react with bromotrimethylsilane in chloroform. Addition of amines to CF3CH2OP(O)Cl2 or (CF3CH2O)2P(O)Cl gave phosphoramidates (RR'N)2P(O)OCH2CF3 or (CF3CH2O)2P(O)NRR' (R and R' = H, Me, Et) in yields of 58-75%. The inverse reactions of Me2NP(O)Cl2 and (Me2N)2P(O)Cl with trifluoroethanol were slow, but were catalyzed by 4-dimethylaminopyridine. Anhydrous hydrogen chloride split one of the P-N bonds of (Me2N)2P(O)OCH2CF3 to give Me2NP(O)Cl(OCH2CF3), but did not react with (CF3CH2O)2P(O)NMe2.

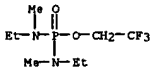
IT 1605-65-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic substitution reaction with fluoroalkyl alcs.)

RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



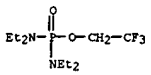
IT 287931-21-9P 287931-22-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 287931-21-9 CAPLUS
CN Phosphorodiamidic acid, N,N'-diethyl-N,N'-dimethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

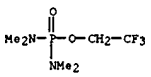


L6 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 287931-22-0 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

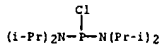


IT 287931-20-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(scission of one P-N bond by reaction with HCl, to form corresponding monochloride)
RN 287931-20-8 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)

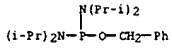


REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
The latter compd. was hydrogenolyzed over 5% Pd-C in MeOH under h atm. at room temp. for 30 h, filtered to remove the catalyst, evapd. in vacuo to remove the solvent, and passed through a column of Diaion SK1B (Na form) (cation exchanger) to give I.Na (R4 = R5 = H). A 1% soln. of the latter compd. in 50% aq. EtOH was tested for stability by heating it at 50° for 14 days or exposing it to sun light for 14 days to show residual ratio of 91.3 or 82.9%, resp., vs. 22.4 or 27.3%, resp. for ascorbic acid. A cosmetic soln. contg. 2.0 wt.% of the latter compd. was applied to 20 female panelists twice a day for 2 mo to show skin whitening effect for 16 panelists.
IT 56183-63-2P, Bis(diisopropylamino)chlorophosphine
108549-21-9P, Benzyloxybis(diisopropylamino)phosphine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of L-ascorbic acid phosphate α-hydroxy acid esters with excellent storage stability as antioxidants and melanin formation inhibitors)
RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



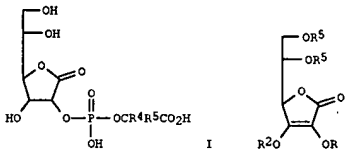
RN 108549-21-9 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:181081 CAPLUS
DOCUMENT NUMBER: 126:186316
TITLE: Preparation of L-ascorbic acid 2-phosphate α-hydroxy acid esters having excellent storage stability
INVENTOR(S): Morizaki, Kazuo; Sasaki, Masanao; Ozaki, Shoichiro; Watanabe, Yutaka
PATENT ASSIGNEE(S): Kanto Denka Kogyo Kk, Japan; Ozaki Shoichiro
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09020790	A	19970121	JP 1995-167638	19950703
JP 3619287	B2	20050209		
PRIORITY APPLN. INFO.:			JP 1995-167638	19950703

OTHER SOURCE(S): MARPAT 126:186316
GI

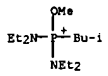


AB The title compds. [I; R3, R4 = H, (CH2)pMe, [(CH2)q(CHMe)r]sCH[(CH2)tMe]u; p, q, r, s, t, u = 0-20] are prepared by condensation of alkoxybis(substituted amino)phosphine of formula (R1R1N)2POR2 (R1 = sec- or tert-alkyl or R1R1N forms a heterocyclic amino; R2 = group cleavable upon reduction such as benzyl, methoxybenzyl, nitrobenzyl, or cyanobenzyl) with α-hydroxy acid of formula HOCR3R4CO2R2 (R2, R3, R4 = same as above) in the presence of a condensing agent, condensation of the resulting R1R1NP(OR2)OCR3R4CO2R2 (R1 - R4 = same as above) with an ascorbic acid derivative (II; R = H; R2 = same as above; R5 group listed in R2) followed by oxidation, and reductive deprotection of the resulting ascorbic acid 2-phosphate derivs. II [R = P(OR2)OCR3R4CO2R2; R2 - R5 = same as above]. They are stable vitamin C derivs. with excellent storage stability, have a broad range of physiol. and pharmaceutical activities such as antioxidant activity and melanin-formation inhibitory activity accompanied by reduction of and melanin dyes and dopaquinone, and are useful for cosmetics, drugs, and foods. Thus, PhCH2OP[N(CHMe2)2]2 (preparation given) was condensed with benzyl glycolate (preparation given) in the presence of 1H-tetrazole in CH2Cl2 at room temperature for 4 h to give 98% PhCH2OP[N(CHMe2)2]OCH2CO2CH2Ph, which was similarly condensed with 3-O-benzyl-5,6-O-benzylidene-L-ascorbic acid at room temperature for 2 h followed by oxidation with m-chloroperbenzoic acid at 0° to room temperature for 1 h to give II [R = P(OCH2Ph)OCH2CO2CH2Ph, R2 = CH2Ph, R5R5 = CHPh].

L6 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:868733 CAPLUS
DOCUMENT NUMBER: 124:87148
TITLE: Reaction of tervalent phosphorus compounds with sterically hindered N-chloroamines
AUTHOR(S): Kolodiazhnyi, Oleg I.; Golovatyi, Oleg R.
CORPORATE SOURCE: Inst. of Bioorganic Chemistry, National Academy of Sciences of Ukraine, Kiev, 253094, Ukraine
SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (1995), 102(1-4), 133-41
CODEN: PSSLEC; ISSN: 1042-6507
PUBLISHER: Gordon & Breach
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:87148
AB Reaction of tervalent P compds., e.g., P(NEt2)3, with sterically hindered N-haloamines, e.g., (Me2CH)2NX (X = Cl, Br) proceeds via the formation of halophosphonium intermediates, i.e., (Et2N)3PX+ (Me2CH)2N- (1). Intermediates 1 react with alcs., e.g., MeOH, to afford alkoxyphosphonium salts, (Et2N)3POMe+ X-; 1 transform into halophosphonium salts (Et2N)3PX+ X- or P-haloylides (Et2N)2PCl:CHCHMe2 (2). Steric hindrances at the N atom of intermediates (1) favor the formation of P-haloylides. The P-chloroylide 2 exists in the chlorotropic equilibrium with the α-chloroalkylphosphine, i.e, (Et2N)2PCHClCHMe2.
IT 172370-46-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reaction with methanol)
RN 172370-46-6 CAPLUS
CN Phosphorus(1+), chlorobis(N-ethylethanaminato)(2-methylpropyl)-, chloride, (T-4)- (9CI) (CA INDEX NAME)

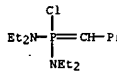
● Cl-

IT 163492-81-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with sodium perchlorate)
RN 163492-81-7 CAPLUS
CN Phosphorus(1+), bis(N-ethylethanaminato)methoxy(2-methylpropyl)-, chloride, (T-4)- (9CI) (CA INDEX NAME)

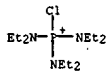


● Cl⁻

IT 110870-82-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of)
RN 110870-82-1 CAPLUS
CN Phosphoranediamine, 1-chloro-N,N,N',N'-tetraethyl-1-(2-methylpropylidene)-(9CI) (CA INDEX NAME)

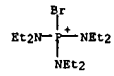


IT 17761-44-3P 73954-63-9P 122600-76-4P
148115-72-4P 151984-71-3P 168130-34-5P
172490-29-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17761-44-3 CAPLUS
CN Phosphorus(1+), chlorotris(N-ethylethanaminato)-, chloride, (T-4)- (9CI) (CA INDEX NAME)



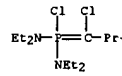
● Cl⁻

RN 73954-63-9 CAPLUS
CN Phosphorus(1+), bromotris(N-ethylethanaminato)-, bromide, (T-4)- (9CI) (CA INDEX NAME)

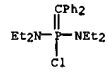


● Br⁻

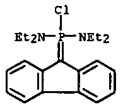
RN 122600-76-4 CAPLUS
CN Phosphoranediamine, 1-chloro-1-(1-chloro-2-methylpropylidene)-N,N,N',N'-tetraethyl- (9CI) (CA INDEX NAME)



RN 148115-72-4 CAPLUS
CN Phosphoranediamine, 1-chloro-1-(diphenylmethylene)-N,N,N',N'-tetraethyl-(9CI) (CA INDEX NAME)



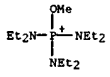
RN 151984-71-3 CAPLUS
CN Phosphoranediamine, 1-chloro-N,N,N',N'-tetraethyl-1-(9H-fluoren-9-ylidene)-(9CI) (CA INDEX NAME)



RN 168130-34-5 CAPLUS
CN Phosphorus(1+), tris(N-ethylethanaminato)methoxy-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 168130-33-4
CMF C13 H33 N3 O P



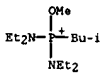
CM 2

CRN 14797-73-0
CMF Cl O4

RN 172490-29-8 CAPLUS
CN Phosphorus(1+), bis(N-ethylethanaminato)methoxy(2-methylpropyl)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 172490-28-7
CMF C13 H32 N2 O P



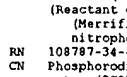
CM 2

CRN 14797-73-0
CMF Cl O4

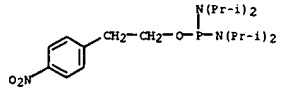
ACCESSION NUMBER: 1995:273379 CAPLUS
DOCUMENT NUMBER: 123:112591
TITLE: Use of Npe-protecting groups for the preparation of oligodeoxyribonucleotides without using nucleophiles during the final deprotection
AUTHOR(S): Avino, Anna Maria; Eritja, Ramon
CORPORATE SOURCE: CID, CSIC, Barcelona, 08034, Spain
SOURCE: Nucleosides & Nucleotides (1994), 13(10), 2059-69
CODEN: NUNUD5; ISSN: 0732-8311
PUBLISHER: Dekker
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:112591

AB The preparation of O-(4-nitrophenyl)ethyl phosphoramidites and H-phosphonate derivs. of Npe (nitrophenyl)ethyl protected nucleosides is described together with the use of these products to prepare oligodeoxyribonucleotides without using nucleophiles during the final deprotection.

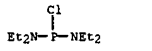
IT 56183-63-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(Merrifield synthesis of oligodeoxyribonucleotides using nitrophenylethyl protecting groups)
RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



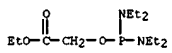
IT 108787-34-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Merrifield synthesis of oligodeoxyribonucleotides using nitrophenylethyl protecting groups)
RN 108787-34-4 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-(4-nitrophenyl)ethyl ester (9CI) (CA INDEX NAME)



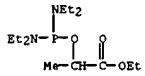
L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:269228 CAPLUS
DOCUMENT NUMBER: 120:269228
TITLE: A convenient method for the transformation of alcohols into alkyl trifluoromethyl sulfides
AUTHOR(S): Kolomeitsev, A. A.; Chabanenko, K. Yu.; Roeschenthaler, G. V.; Yagupolskii, Yu. L.
CORPORATE SOURCE: Inst. Org. Chem., Kiev, 253660, Ukraine
SOURCE: Synthesis (1994), (2), 145-6
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:269228
AB Alkyl trifluoromethyl sulfides RSCF3 (R = PhCH2, EtO2CCH2, EtO2CCHMe) are prepared in almost quant. yields by phosphitylation of alcs. or α-hydroxy esters ROH using (Et2N)2PCl, followed by reaction with (CF3)2S2 under extremely mild conditions. Ph2S2 reacts similarly with phosphitylated alc. (Et2N)2POCH2Ph.
IT 685-83-6, Chlorobis(diethylamino)phosphine
RL: RCT (Reactant); RACT (Reactant or reagent)
(esterification of)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 154601-51-1P 154601-52-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with bis(trifluoromethyl) disulfide)
RN 154601-51-1 CAPLUS
CN Acetic acid, [[bis(diethylamino)phosphino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)

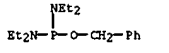


RN 154601-52-2 CAPLUS
CN Propanoic acid, 2-[[bis(diethylamino)phosphino]oxy]-, ethyl ester (9CI) (CA INDEX NAME)

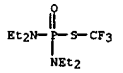


IT 66954-57-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with disulfides)

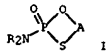
L6 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 66954-57-2 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



IT 154601-54-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 154601-54-4 CAPLUS
CN Phosphorodiamidothioic acid, tetraethyl-, S-(trifluoromethyl) ester (9CI) (CA INDEX NAME)

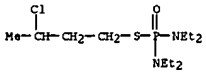


L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:107134 CAPLUS
DOCUMENT NUMBER: 120:107134
TITLE: Transformations of thiocyanoalkyl phosphites and amidophosphites
AUTHOR(S): Nuretdinova, O. N.; Novikova, V. G.; Troitskaja, L. B.
CORPORATE SOURCE: A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia
SOURCE: Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2673-5
CODEN: IASKEA; ISSN: 1026-3500
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 120:107134
GI



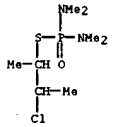
I

AB Reaction of [Me2C(CCl3)O]2PCl with MeCH(OH)CH2CH2SCN from -10 to -15° to 20° afforded [Me2C(CCl3)O]2POCHMeCH2CH2SCN; heating the latter in boiling PhMe afforded quant. [Me2C(CCl3)O]2PSCH2CH2CH(CN)Me. Reaction of (MeO)P(NR2)Cl (R = Me, Et) with HOASCN [A = (CH2)3, MeCH(CH2)2, MeCHCH2, MeCHCHMe] afforded oxathiaphospholanes and -phosphorinanes I. Rearrangement reaction of (Me2N)2PCl with HOCHMeCHMeSCN afforded (Me2N)2P(O)SCHMeCHMeCl.
IT 150844-72-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 150844-72-7 CAPLUS
CN Phosphorodiamidothioic acid, tetraethyl-, S-(3-chlorobutyl) ester (9CI) (CA INDEX NAME)

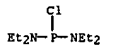


IT 152327-69-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactions of, with amidochlorophosphites)
RN 152327-69-0 CAPLUS
CN Phosphorodiamidothioic acid, tetramethyl-, S-(2-chloro-1-methylpropyl) ester (9CI) (CA INDEX NAME)

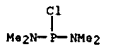
L6 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 685-83-6 3348-44-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(rearrangement reaction, with thiocyano alcs.)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 3348-44-5 CAPLUS
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    73.69     417.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.30     418.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -7.80

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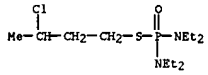
L6 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:626073 CAPLUS
DOCUMENT NUMBER: 119:226073
TITLE: Reaction of tetraethyldiamidochlorophosphite with thiocyano alcohols
AUTHOR(S): Nuretdinova, O. N.; Novikova, V. G.
CORPORATE SOURCE: A. E. Arbuzov Inst. Org. Phys. Chem., Kazan, 420083, Russia
SOURCE: Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (11), 2678-80
CODEN: IASKEA; ISSN: 1026-3500
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 119:226073

AB Reaction of (Et2N)2PCl with MeCH(OH)CH2CH2SCN in Et2O containing Et3N at low temperature (-30 to -35°) gave (Et2N)2P(X)CN (X = S, Se), resp. Treating the latter with S or Se in PhMe gave (Et2N)2P(X)CN (X = S, Se), resp.

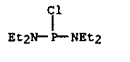
IT 150844-72-7P
RL: PREP (Preparation)
(formation and phosphorus-31 NMR of)

RN 150844-72-7 CAPLUS
CN Phosphorodiamidothioic acid, tetraethyl-, S-(3-chlorobutyl) ester (9CI) (CA INDEX NAME)



IT 685-83-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiocyanobutanol)

RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:192248 CAPLUS
DOCUMENT NUMBER: 118:192248
TITLE: Synthesis and phosphorylating properties of hydroxyamino acid phosphoramidites
AUTHOR(S): Dreef-Tromp, C. M.; Lefeber, A. W. M.; Van der Marel, G. A.; Van Boom, J. H.
CORPORATE SOURCE: Gorlaeus Lab., Leiden, 2300 RA, Neth.
SOURCE: Synthesis (1992), (12), 1269-72
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 118:192248

AB The preparation of protected amino ester phosphoramidites PhCH2O2C-X[P(OCH2Ph)N(CHMe2)2]-OCH2Ph (I; X = Ser, Thr, Tyr, hydroxyproline) using the versatile phosphitylating reagent PhCH2OP[N(CHMe2)2]2 is described. The application of phosphoramidites I is illustrated in the synthesis of several phosphate diesters.

IT 108549-21-9P, Benzyloxybis(diisopropylamino)phosphine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and phosphitylation by, of protected hydroxy amino acid side chains)

RN 108549-21-9 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)

IT 56183-63-2, Chlorobis(N,N-diisopropyl)phosphoramidite
RL: PROC (Process)
(substitution of, with benzyl alc.)

RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:22543 CAPLUS
DOCUMENT NUMBER: 118:22543
TITLE: Preparation of intermediates for glycosylphosphatidylinositol anchors
INVENTOR(S): Ogawa, Tomoya; Muragata, Tsutomu; Saito, Hiromitsu
PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan; Kyowa Hakko Kogyo Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04120089	A	19920421	JP 1990-240960	19900911
PRIORITY APPLN. INFO.:			JP 1990-240960	19900911

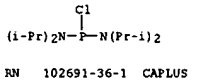
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

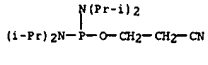
AB The title intermediates, e.g. I and II, are prepared E.g., I was prepared in
4 steps from the protected hexopyranose diacetate III via reaction with p-MeOC6H4OH in methylene chloride containing CF3SO3SiMe3, hydrolysis, reaction
with benzyl alc., ClP[N(CHMe2)2]2, and HOCH2CH2NHCO2CH2Ph, and debenzylation.

IT 56183-63-2 102691-36-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of intermediates for glycosylphosphatidylinositol anchors)

RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)

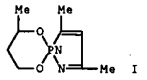


RN 102691-36-1 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:492391 CAPLUS
DOCUMENT NUMBER: 115:92391
TITLE: Trivalent phosphorus acid pyrazolides
AUTHOR(S): Iorish, V. Yu.; Grachev, M. K.; Bekker, A. R.; Nifant'ev, E. A.
CORPORATE SOURCE: Mosk. Gos. Pedagog. Inst., Moscow, USSR
SOURCE: Zhurnal Obshchei Khimii (1991), 61(1), 106-14
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 115:92391

GI

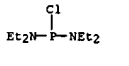


I

AB Phosphorylation of pyrazoles was accomplished by several methods, e.g., by reaction with 2-chloro-1,3,2-dioxaphosphorinanes. The phosphorylating ability of the phosphorylated pyrazoles could be enhanced by amine hydrochloride or HBF4. In pyrazolide I, the pyrazole ring preferred the axial orientation.

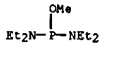
IT 685-83-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(phosphorylation by, of pyrazoles)

RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

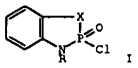


IT 30463-72-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 30463-72-0 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)

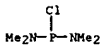


L6 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:429465 CAPLUS
DOCUMENT NUMBER: 115:29465
TITLE: 1,3,2λ5-Benzothiazaphosphole 2-oxide and 1,3,2λ5-benzoxazaphosphole 2-oxide derivatives, new and versatile phosphorylating reagents
AUTHOR(S): Jacob, Peter; Richter, Wolfgang; Ugi, Ivar
CORPORATE SOURCE: Org. Chem. Inst., Tech. Univ. Muenchen, Garching, D-8046, Germany
SOURCE: Liebigs Annalen der Chemie (1991), (6), 519-22
CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:29465
GI

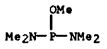


I

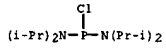
AB The synthesis of the highly reactive five-membered cyclic phosphorylating reagents I (R = Me, X = S; R = SO2Me, X = O) is described. The former monophosphorylates alcs. without ring opening, whereas the latter diphosphorylates with ring opening yielding phosphate triesters.
IT 3348-44-5 17166-16-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclocondensation reaction of, with aminothiophenol)
RN 3348-44-5 CAPLUS
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



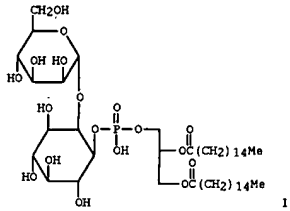
RN 17166-16-4 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
NAME)

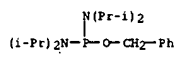


L6 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:56485 CAPLUS
DOCUMENT NUMBER: 112:56485
TITLE: Synthesis of 1-O-(1,2-di-O-palmitoyl-sn-glycero-3-phosphoryl)-2-O-α-D-mannopyranosyl-D-myo-inositol: a fragment of mycobacterial phospholipids
AUTHOR(S): Elie, C. J. J.; Dreef, C. E.; Verduyn, R.; Van der Marel, G. A.; Van Boom, J. H.
CORPORATE SOURCE: Gorlaeus Lab., Leiden, 2300 RA, Neth.
SOURCE: Tetrahedron (1989), 45(11), 3477-86
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:56485
GI



I

AB Optically active and partially benzylated 2-O-(α-D-mannopyranosyl)-D-myo-inositol was coupled, via a trivalent phosphorus method, with 1,2-di-O-palmitoyl-sn-glycerol. Oxidation of the intermediate phosphite-triester, and subsequent removal of the P(V)- and O-benzyl protecting groups, afforded the chiral title compound I.
IT 108549-21-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with di-O-palmitoylglycerol)
RN 108549-21-9 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, phenylmethyl ester (9CI) (CA INDEX NAME)

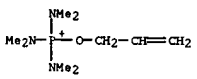


IT 56183-63-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl alc.)
RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:57225 CAPLUS
DOCUMENT NUMBER: 110:57225
TITLE: Preparation of alkyl aryl ethers and thio ethers
AUTHOR(S): Downie, Ian M.; Heaney, Harry; Kemp, Graham
CORPORATE SOURCE: Dep. Chem., Univ. Technol., Leicestershire, LE11 3TU, UK
SOURCE: Tetrahedron (1988), 44(9), 2619-24
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:57225
AB Stable alkoxyphosphonium salts, ROP+(NMe2)3 PF6- [I; R = Me3CCH2, Pr, allyl, PhCH2, H(CH2)6CHMe], were prepared and treated with phenols and thiophenols under basic conditions, to yield the corresponding alkyl aryl ethers and sulfides, resp. E.g., I [R = H(CH2)6CHMe] reacted with PhOH and PhSH in Me2NCHO containing KOH to give 90% ROPh and 61% RSPh, resp.
IT 54739-05-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and etherification and sulfenylation of, with phenol and thiophenols)
RN 54739-05-8 CAPLUS
CN Phosphorus(1+), tris(N-methylmethanaminato)(2-propen-1-olato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

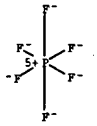
CM 1

CRN 54739-04-7
CMF C9 H23 N3 O P



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

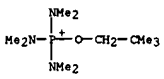


IT 54739-01-4P 54739-03-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and etherification of, with aromatic alcs.)

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 54739-01-4 CAPLUS
CN Phosphorus(1+), (2,2-dimethyl-1-propanolato)tris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

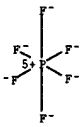
CM 1

CRN 54739-00-3
CMF C11 H29 N3 O P



CM 2

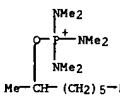
CRN 16919-18-9
CMF F6 P
CCI CCS



RN 54739-03-6 CAPLUS
CN Phosphorus(1+), tris(N-methylmethanaminato)(2-octanolato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CM 1

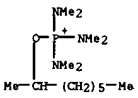
CRN 54739-02-5
CMF C14 H35 N3 O P



CM 2

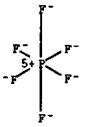
CRN 16919-18-9
CMF F6 P

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CRN 63640-67-5
CMF C14 H35 N3 O P



CM 2

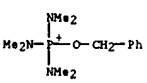
CRN 16919-18-9
CMF F6 P
CCI CCS



IT 54774-06-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and sulfenylation of, with thiophenols)
RN 54774-06-0 CAPLUS
CN Phosphorus(1+), (benzenemethanolato)tris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CM 1

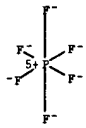
CRN 46852-57-7
CMF C13 H25 N3 O P



CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS

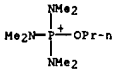
L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CCI CCS



IT 118527-13-2P 118527-15-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and etherification of, with phenol)
RN 118527-13-2 CAPLUS
CN Phosphorus(1+), tris(N-methylmethanaminato)propoxy-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

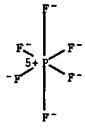
CM 1

CRN 118527-12-1
CMF C9 H25 N3 O P



CM 2

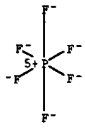
CRN 16919-18-9
CMF F6 P
CCI CCS



RN 118527-15-4 CAPLUS
CN Phosphorus(1+), tris(N-methylmethanaminato)(2-octanolato)-, [T-4-(R)]-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

CM 1

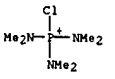
L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 73421-39-3P 118527-19-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 73421-39-3 CAPLUS
CN Phosphorus(1+), chlorotris(N-methylmethanaminato)-, (T-4)-, hexafluorophosphate(1-) (9CI) (CA INDEX NAME)

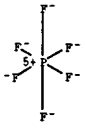
CM 1

CRN 32803-80-8
CMF C6 H18 Cl N3 P



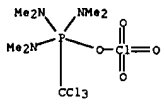
CM 2

CRN 16919-18-9
CMF F6 P
CCI CCS



RN 118527-19-8 CAPLUS
CN Phosphoranetriamine, N,N,N',N',N'',N''-hexamethyl-1-(perchloryloxy)-1-(trichloromethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L6 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:549797 CAPLUS
DOCUMENT NUMBER: 109:149797
TITLE: Phosphorodiamidous acid ester derivatives
INVENTOR(S): Tawara, Shinichiro; Goto, Kuniaki; Hayakawa, Yoshihiro
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

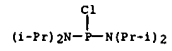
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62212395	A	19870918	JP 1986-53305	19860311

PRIORITY APPLN. INFO.: JP 1986-53305 19860311

AB R3OP(NR1R2)2 (I; R1, R2 = secondary or tertiary alkyl; NR1R2 may be a ring; R3O = OH-derived protective group), useful in polynucleotide synthesis, are prepared by amination of PX3 (X = halo) and treating the resultant XP(NR1R2)2 with R3OH. Thus, stirring 28.6 mmol PCl3 with 114.4 mmol diisopropylamine in Et2O at room temperature for 20 h gave 70% [(Me2CH)2N]2PCl, 20 mmol of which was stirred with 20 mmol Et3N and 20 mmol allyl alc. in Et2O at room temperature for 15 h to give 47% I (R1 = R2 = Me2CH, R3 = allyl).

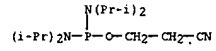
IT 56183-63-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with allyl alc. or cyanoethanol)

RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



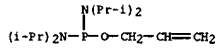
IT 102691-36-1P 108554-72-9P, Allyloxybis(N,N-diisopropylamino)phosphine
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as synthetic reagent for polynucleotide synthesis)

RN 102691-36-1 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)



RN 108554-72-9 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-propenyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



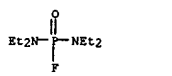
L6 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:591237 CAPLUS
DOCUMENT NUMBER: 105:191237
TITLE: Reaction of the two-component systems P(OR)3-x(NR2)x(x = 0-3)/CCl4 and P4/CCl4 with HF-donators
AUTHOR(S): Riesel, L.; Kant, M.
CORPORATE SOURCE: Sekt. Chem., Humboldt-Univ., Berlin, DDR-1040, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1985), 531, 73-81
CODEN: ZAACAB; ISSN: 0044-2313
DOCUMENT TYPE: Journal
LANGUAGE: German

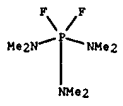
AB The combination of organoammonium fluorides and CCl4 is a good agent for oxidative fluorination of trivalent phosphorus compds. Oxidation products [(RO)PF5]- and (RO)2P(O)F are obtained from P(OR)3; (Et2N)2P(O)F and (Et2N)2(EtO)PF2 are obtained from P(OEt)(NEt2)2, and (Et2N)3PF2 and [(Et2N)3PF]+ are obtained from P(NEt2)3. In the system R2NH/CCl4/Et3N·nHF, P4 is oxidized forming [HPF5]-, R2NH·PF5 and (R2N)2P(O)F. In the case of simultaneous addition of alcs., [(RO)PF5]-, (RO)3PO and (R2N)2P(O)F are formed. The reactions are controlled by the nucleophilicity, the concentration of fluoride, the acidity of the system, and the temperature

IT 562-17-4P 7549-83-9P 32318-29-9P 81193-87-5P 104475-64-1P 104494-43-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

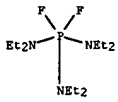
RN 562-17-4 CAPLUS
CN Phosphorodiamidic fluoride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



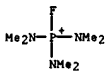
RN 7549-83-9 CAPLUS
CN Phosphoranetriamine, 1,1-difluoro-N,N,N',N',N'',N''-hexamethyl- (9CI) (CA INDEX NAME)



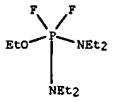
RN 32318-29-9 CAPLUS
CN Phosphoranetriamine, N,N,N',N',N'',N''-hexaethyl-1,1-difluoro-, (TB-5-11)- (9CI) (CA INDEX NAME)



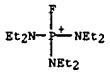
RN 81193-87-5 CAPLUS
CN Phosphorus(1+), fluorotris(N-methylmethanaminato)-, (T-4)- (9CI) (CA INDEX NAME)



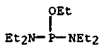
RN 104475-64-1 CAPLUS
CN Phosphoranediamine, 1-ethoxy-N,N,N',N'-tetraethyl-1,1-difluoro- (9CI) (CA INDEX NAME)



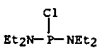
RN 104494-43-1 CAPLUS
CN Phosphorus(1+), tris(N-ethylethanaminato)fluoro-, (T-4)- (9CI) (CA INDEX NAME)



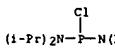
IT 2632-88-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with hydrogen fluoride generators)
RN 2632-88-4 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



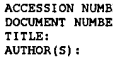
ACCESSION NUMBER: 1986:497579 CAPLUS
DOCUMENT NUMBER: 105:97579
TITLE: Thermal instability of some alkyl phosphorodiamidites
AUTHOR(S): Nielsen, John; Marugg, John E.; Van Boom, Jacques H.; Honnens, Jeanne; Taagaard, Michael; Dahl, Otto
CORPORATE SOURCE: Dep. Gen. Org. Chem., Univ. Copenhagen, Copenhagen, DK-2100, Den.
SOURCE: Journal of Chemical Research, Synopses (1986), (1), 26-7
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:97579
AB The phosphorodiamidites ROP(NR'2)2 [R = (CH2)2CN, R' = Et (I), CHMe2; R = CHMeCH2CN, R' = Et; R = CMe2CH2CN, R' = Et, CHMe2; R = (CH2)2SO2Me, R' = Et (II), CHMe2 (III)], promising reagents for the in situ preparation of deoxyribonucleoside phosphoramides, were prepared in 45-.apprx.100% yield either by condensation of Et2NSiMe3 with alkyl phosphorodichloridites or of (R'2N)2PCl with ROH. Except for I-III, the phosphorodiamidites were thermally stable. I-III decomposed at, or below, room temperature I and II gave R2(CH2)2P(O)(NEt2)2 (R2 = CN, SO2Me) in 65 and 96% yield, resp; the mechanism involves an initiation step to form R2CH:CH2 (IV) and HP(O)(NEt2)2 followed by a rearrangement cycle in which IV acts as a catalyst. Alkyl phosphorodiamidites with alkoxy groups capable of β-elimination are inherently thermally unstable but their propensity to rearrange to alkylphosphonic diamides is inhibited by bulky substituents.
IT 685-83-6 56183-63-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reactions of, with alcs.)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



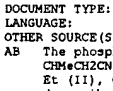
RN 56183-63-2 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(1-methylethyl)- (9CI) (CA INDEX NAME)



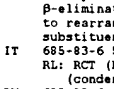
IT 103930-67-2P 103930-71-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and rearrangement of, mechanism of)
RN 103930-67-2 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)



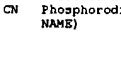
RN 103930-71-8 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME)



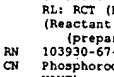
IT 103930-72-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and stability of)
RN 103930-72-9 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME)



IT 102691-36-1P 103930-68-3P 103930-69-4P
103930-70-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 102691-36-1 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyanoethyl ester (9CI) (CA INDEX NAME)

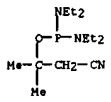


RN 103930-68-3 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 2-cyano-1-methylethyl ester (9CI) (CA INDEX NAME)

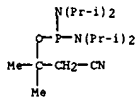


RN 103930-69-4 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 2-cyano-1,1-dimethylethyl ester

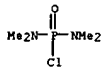
L6 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(9CI) (CA INDEX NAME)



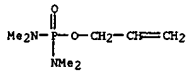
RN 103930-70-7 CAPLUS
CN Phosphorodiamidous acid, tetrakis(1-methylethyl)-, 2-cyano-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



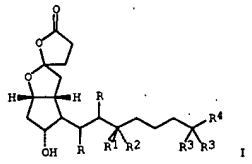
L6 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



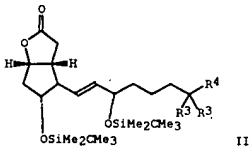
IT 50775-60-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deprotonation of)
RN 50775-60-5 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-propenyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:438705 CAPLUS
DOCUMENT NUMBER: 97:38705
TITLE: The synthesis of 2,3-dinorprostacyclin metabolites: a new approach to spirolactone hemiacetals
AUTHOR(S): Bundy, G. L.; Lin, C. H.; Sih, J. C.
CORPORATE SOURCE: Exp. Chem. Res., Upjohn Co., Kalamazoo, MI, 49001, USA
SOURCE: Tetrahedron (1981), 37(25), 4419-29
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

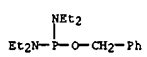


II

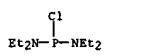
AB The major human urinary metabolites of prostacyclin and 6-oxo-PGF1α were prepared by a direct route involving C3 homologation of bicyclic lactone intermediates and spontaneous spirolactonization of the products. The fact that these 2,3-dinor-6-oxo metabolites exist almost exclusively as spirolactone hemiacetals at pH <5 may explain the reported difficulties in derivatizing samples of biol. origin. The metabolites I (R2 = bond, R1 = H, R2 = OH; R1R2 = O; R = H, R1R2 = O; R3 = H, R4 = Me; R3 = D, R4 = CHD2)] were prepared from bicyclic lactones II (same R3, R4) by treatment with (Me2N)2P(O)CH(O-)CH2CH2- 2Li+ at -25° followed by mild acidification and desilylation and, if necessary, oxidation I (R = R3 = H, R1R2 = O, R4 = CO2H) was prepared similarly.
IT 1605-65-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction of, with allyl alc.)
RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

=> d 16 22-32 ibib abs hitstr

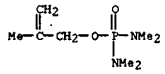
L6 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:122835 CAPLUS
DOCUMENT NUMBER: 96:122835
TITLE: Migratory capability of the substituent X in the R2(XO)P:N-P(O)R2 system
AUTHOR(S): Zaslavskaya, N. N.; Gilyarov, V. A.
CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR
SOURCE: Khim. Primen. Fosfororg. Soedin., Tr. Yubileinoi Konf., 6th (1981), Meeting Date 1977, 274-81. Editor(s): Kirsanov, A. V. Izd. Naukova Dumka: Kiev, USSR.
CODEN: 47ETAA
DOCUMENT TYPE: Conference; General Review
LANGUAGE: Russian
AB A review, with 11 refs., including the preparation of (MeO)2P(O)N:P(OEt)2(OSiMe3), (CH2:CHCH2O)(EtO)2P:NP(O)(OEt)2, Et2(PhCH2O)P:NP(O)(NEt2)2 and (Et2N)2POCH2Ph.
IT 66954-57-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with di-Et azidophosphate)
RN 66954-57-2 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



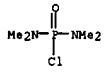
IT 685-83-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with benzyl alc.)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



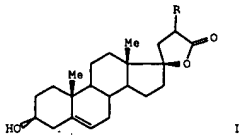
L6 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 1605-65-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with allyl alc. and with methallyl alc.)
RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

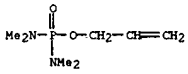


L6 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:568476 CAPLUS
DOCUMENT NUMBER: 93:168476
TITLE: Lactonization at the 17β-position of steroids
AUTHOR(S): Sturtz, Georges; Yaouanc, Jean Jacques; Krausz, Francois; Labeeuw, Bernard
CORPORATE SOURCE: Lab. Chim. Hetero Org., Fac. Sci. Tech., Brest, F-29283, Fr.
SOURCE: Synthesis (1980), (4), 289-91
CODEN: SYNTBF; ISSN: 0039-7881
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:168476
GI



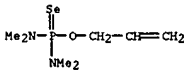
I

AB Andrenolactone (I; R = H) and its methyl homolog (I; R = Me) were prepared by reaction of the O-tetrahydropyranyl derivative of 3β-hydroxy-17-oxoandrost-5-ene with (Me2N)2P(O)CH(O-):CRCH2-.2Li+ (II). Best results were obtained when the reaction was carried out in the presence of agents which solvate the Li cation such as Me2NCH2CH2NMe2, 1,4-diazabicyclo[2.2.2]octane, or a suitable crown ether. II were prepared by treatment of (Me2N)2P(O)OCH2CR:CH2 with 2 equiv BuLi.
IT 50775-60-5P 58998-14-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with butyllithium and androstenone)
RN 50775-60-5 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-propenyl ester (9CI) (CA INDEX NAME)

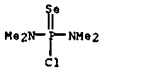


RN 58998-14-4 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-methyl-2-propenyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1978:442308 CAPLUS
DOCUMENT NUMBER: 89:42308
TITLE: Synthesis and isomerization of allyl esters of selenonic acids of phosphorus
AUTHOR(S): Nuretdinov, I. A.; Buina, N. A.; Bayandina, E. V.; Loginova, E. I.; Gainullina, R. G.
CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbuzova, Kazan, USSR
SOURCE: Zhurnal Obshchei Khimii (1978), 48(3), 547-51
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB RR1P(Se)Cl (R = R1 = PhO, Me2N; R = PhO, R1 = Et2N) reacted with allyl alc. in C6H6 containing Et3N at 10-12° to give RR1P(Se)OCH2CH:CH2 (I), which isomerized to RR1P(O)SeCH2CH:CH2 on distillation in vacuo. Cl2POCH2CH:CH2 reacted with R2OH (R2 = Me, Et) and Se in petroleum ether containing Et3N at -5° to give 68.0-9.6% (R2O)2P(Se)OCH2CH:CH2, which isomerized in a sealed ampul on a steam bath to give 68.6-70.0% (R2O)2P(O)SeCH2CH:CH2. I (R = BuO, R1 = Et2N; R = Et, R1 = Et, EtO) were prepared analogously. Isomerization mechanisms were discussed. The reactivity of I toward isomerization decreased in the order of RR1 (PhO)2 >diathoxy >(PhO)(Et2N) >Et(EtO) >(BuO)(Et2N) >Et2.
IT 58722-80-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and isomerization of)
RN 58722-80-8 CAPLUS
CN Phosphorodiamidoselenoic acid, tetramethyl-, O-2-propenyl ester (9CI) (CA INDEX NAME)



IT 25408-76-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with allyl alc.)
RN 25408-76-8 CAPLUS
CN Phosphorodiamidoselenoic chloride, tetramethyl- (8CI, 9CI) (CA INDEX NAME)



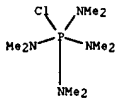
L6 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1978:405919 CAPLUS
DOCUMENT NUMBER: 89:5919
TITLE: Phosphoric acid amides, -esteramides, and -esters and phosphonium compounds by direct synthesis from elementary phosphorus
INVENTOR(S): Hoffmann, Klaus Dieter; Lehmann, Bodo; Lehmann, Hans Albert; Riesel, Lothar; Schumann, Kurt
PATENT ASSIGNEE(S): Ger. Dem. Rep.
SOURCE: Ger. (East), 8 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 127187	A1	19770907	DD 1974-181729	19741016
PRIORITY APPLN. INFO.:			DD 1974-181729 A1	19741016

AB (R1R2N)3-nP(O)(OR3)n (R1, R2 = H, alkyl; R3 = alkyl, H; n = 0-3) were prepared from P and R1R2NH in the presence of H2O-alkanol and [P(NR1R2)4]X (R1, R2 as above, X = Cl, Br, I) from P and R1R2NH in the absence of H2O or alc. (7 compds. prepared). Thus, stirring 0.1 mol white P with 1 mol CCl4, 0.8 mol HNEt2, and 1.0mol EtOH 8 h at 25° gave 50% (Et2N)2P(O)OEt, 17-20% (EtO)3PO, 15% (Et2N)3PO, and 12% Et2NP(O)(OEt)2. Passing a stream of HNMe2 into a mixture of 0.1 mol white P in 1.5 mol CCl4 3 h at 75° gave 90% (Me2N)4P+Cl-.

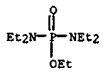
IT 66647-64-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from phosphorus and dimethylamine)

RN 66647-64-1 CAPLUS
CN Phosphoranetetramine, 1-chloro-N,N,N',N',N'',N'',N''',N'''-octamethyl- (9CI) (CA INDEX NAME)



IT 3644-89-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from phosphorus, diethylamine, and ethanol)

RN 3644-89-1 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



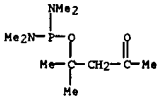
L6 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1977:467788 CAPLUS
DOCUMENT NUMBER: 87:67788
TITLE: Reactions of keto alcohols with organophosphorus compounds. 8. Reaction of β-keto alcohols with amidophosphorous acid chlorides
AUTHOR(S): Mukhametov, F. S.; Stepashkina, L. V.; Rizpolozhenskii, N. I.
CORPORATE SOURCE: Inst. Org. Fiz. Khim. im. Arbuzova, Kazan, USSR
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1977), (5), 1134-8
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian

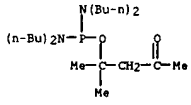
AB Treating RR1PCl [R = MeO, Me2CHO, BuO, Me2CHCH2O, EtCHMeO, C7H15O, Cl3CCMe2O, Et, R1 = Et2N; R = R1 = Me2N, Et2N, Bu2N, (Me2CHCH2)2N] with HOCR2MeCH2COMe (R2 = H, Me) in the presence of Et3N gave 13 RR1POCR2MeCH2COMe (I) in 33.2-92.0% yield. Six I added S to give 43.2-86.1% RR1P(S)OCR2MeCH2COMe. I (R = MeO, R1 Et2N, R2 = Me) decomposed on standing to give MeO(Et2N)P(O)H and Me2C:CHCOMe. The presence of the amide group in I inhibits their isomerization to the resp. phosphonates.

IT 63616-48-8P 63616-49-9P 63616-51-3P
63616-52-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with sulfur)

RN 63616-48-8 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

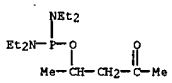


RN 63616-49-9 CAPLUS
CN Phosphorodiamidous acid, tetrabutyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

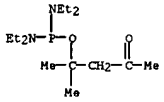


RN 63616-51-3 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 1-methyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

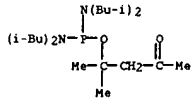


RN 63616-52-4 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

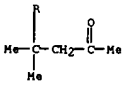


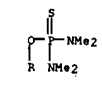
IT 63616-53-5P 63616-56-8P 63616-57-9P
63616-58-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 63616-53-5 CAPLUS
CN Phosphorodiamidous acid, tetrakis(2-methylpropyl)-, 1,1-dimethyl-3-oxobutyl ester (9CI) (CA INDEX NAME)

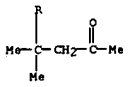


RN 63616-56-8 CAPLUS
CN Phosphorodiamidothioic acid, tetramethyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)

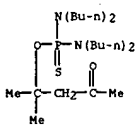




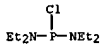
L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 63616-57-9 CAPLUS
CN Phosphorodiamidothioic acid, tetraethyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



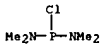
RN 63616-58-0 CAPLUS
CN Phosphorodiamidothioic acid, tetrabutyl-, O-(1,1-dimethyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



IT 685-83-6 3348-44-5 32597-22-1
63616-14-8 63616-59-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diacetone alc.)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

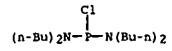


RN 3348-44-5 CAPLUS
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

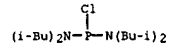


RN 32597-22-1 CAPLUS

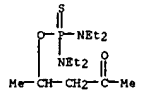
L6 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Phosphorodiamidous chloride, tetrabutyl- (8CI, 9CI) (CA INDEX NAME)



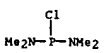
RN 63616-14-8 CAPLUS
CN Phosphorodiamidous chloride, tetrakis(2-methylpropyl)- (9CI) (CA INDEX NAME)



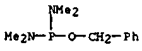
RN 63616-59-1 CAPLUS
CN Phosphorodiamidothioic acid, tetraethyl-, O-(1-methyl-3-oxobutyl) ester (9CI) (CA INDEX NAME)



L6 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:563734 CAPLUS
DOCUMENT NUMBER: 83:163734
TITLE: Phosphorodiamidites as synthetic intermediates in the preparation of diphenylacetylenes
AUTHOR(S): Hargis, J. Howard; Alley, W. Del
CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, USA
SOURCE: Journal of the Chemical Society, Chemical Communications (1975), (15), 612-13
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Addition of PCl3 to P(NMe2)3 gave ClP(NMe2)2, which on condensation with p-RC6H4CH2OH (R = H, OMe, Cl, F) gave the corresponding p-RC6H4CH2OP(NMe2)2 (I). Reaction of I with PhCCl3 gave (Me2N)2P(O)Cl and the corresponding p-RC6H4CH2CCl2Ph (II). Reaction of II with KOH-EtOH caused dehydrochlorination and formation of the corresponding alkynes, p-RC6H4C.tplbond.CPh. The mechanism postulated for the reaction between I and polyhalogenated compds. was supported by kinetic data obtained from the reactions of II with PhCCl3. Second-order kinetics were observed and a Hammett plot of these data gave a neg. ρ value in accordance with the rate determining nucleophilic attack of I on the halogen of PhCCl3, followed by
rapid dealkylation of the phosphonium ion. The intermediacy of a polyhalogenated anion was supported by trapping of the CCl3 anion as CHCl3 when II (X = H) was treated with CCl4 in the presence of a proton donor e.g. MeOH.
IT 3348-44-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation reaction with benzyl alcs.)
RN 3348-44-5 CAPLUS
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

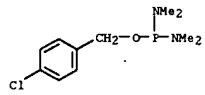


IT 53617-91-7P 57365-29-4P 57365-30-7P
57365-31-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with benzotrichloride, kinetics of)
RN 53617-91-7 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)

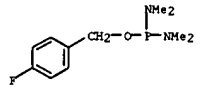


RN 57365-29-4 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, (4-chlorophenyl)methyl ester (9CI) (CA INDEX NAME)

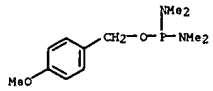
L6 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 57365-30-7 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, (4-fluorophenyl)methyl ester (9CI) (CA INDEX NAME)



RN 57365-31-8 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, (4-methoxyphenyl)methyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:478638 CAPLUS
DOCUMENT NUMBER: 83:78638
TITLE: Propargylic phosphorodiamidates
INVENTOR(S): Sturtz, Georges; Corbel, Bernard; Paugan, Jean P.; Vuilleroy de Silly, Patrick
PATENT ASSIGNEE(S): Agence Nationale de Valorisation de la Recherche, Fr.
SOURCE: Fr. Demande, 16 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

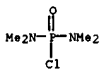
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2236871	A1	19750207	FR 1973-25634	19730712
FR 2236871	B1	19760618		

PRIORITY APPLN. INFO.: FR 1973-25634 A 19730712

AB (R2N)2P(O)CH2C.tplbond.CR1 (R2N = Me2N, Et2N, Bu2N, 1-aziridinyl 1-pyrrolidinyl, piperidino, or morpholino; R1 = H) were prepared in 54-89% yield by reaction of Cl2P(O)OCH2C.tplbond.CH with R2NH, and these products were alkylated with MeI and with n-C5H11I to give (R2N)2P(O)CH2C.tplbond.CR1 (R2N = same meaning, R1 = Me or n-C5H11) in 50-95% yield. (Me2N)2P(O)OCH2C.tplbond.CR (R = Et, Pr, or Bu) were similarly prepared in 59-77% yield. (Me2N)2P(O)OCH2C.tplbond.CH also reacted with BuLi and R2CO to give 51-67% (Me2N)2P(O)OCH2C.tplbond.CCR2OH (R = Me or Cl, or R2C = cyclopentyl, cyclohexyl, or 2-bornyl).

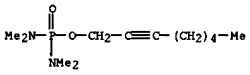
IT 1605-65-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture and esterification of, with acetylinic alcs.)

RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

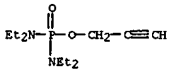


IT 53799-85-2P 53799-88-5P 53799-89-6P
53799-90-9P 53799-91-0P 53799-92-1P
56305-14-7P 56305-15-8P 56305-20-5P
56305-21-6P 56305-22-7P 56305-23-8P
56305-30-7P 56305-31-8P 56305-32-9P
56305-33-0P 56305-34-1P 56305-35-2P
56305-36-3P 56305-37-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

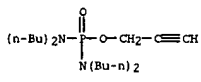
RN 53799-85-2 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-propynyl ester (9CI) (CA INDEX NAME)



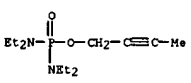
RN 56305-14-7 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, 2-propynyl ester (9CI) (CA INDEX NAME)



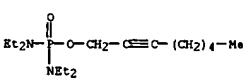
RN 56305-15-8 CAPLUS
CN Phosphorodiamidic acid, tetrabutyl-, 2-propynyl ester (9CI) (CA INDEX NAME)



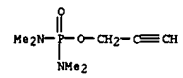
RN 56305-20-5 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, 2-butynyl ester (9CI) (CA INDEX NAME)



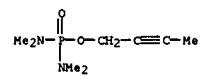
RN 56305-21-6 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, 2-octynyl ester (9CI) (CA INDEX NAME)



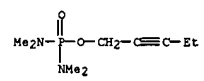
RN 56305-22-7 CAPLUS
CN Phosphorodiamidic acid, tetrabutyl-, 2-butynyl ester (9CI) (CA INDEX NAME)



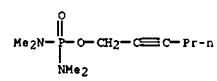
RN 53799-88-5 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-butynyl ester (9CI) (CA INDEX NAME)



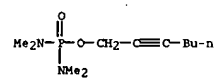
RN 53799-89-6 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-pentynyl ester (9CI) (CA INDEX NAME)



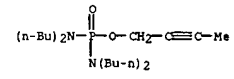
RN 53799-90-9 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-hexynyl ester (9CI) (CA INDEX NAME)



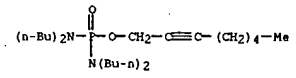
RN 53799-91-0 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-heptynyl ester (9CI) (CA INDEX NAME)



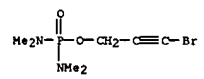
RN 53799-92-1 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 2-octynyl ester (9CI) (CA INDEX NAME)



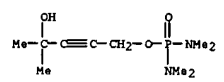
RN 56305-23-8 CAPLUS
CN Phosphorodiamidic acid, tetrabutyl-, 2-octynyl ester (9CI) (CA INDEX NAME)



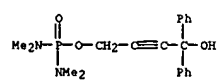
RN 56305-30-7 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 3-bromo-2-propynyl ester (9CI) (CA INDEX NAME)



RN 56305-31-8 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 4-hydroxy-4-methyl-2-pentynyl ester (9CI) (CA INDEX NAME)

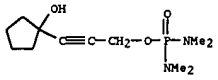


RN 56305-32-9 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 4-hydroxy-4,4-diphenyl-2-butynyl ester (9CI) (CA INDEX NAME)

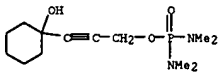


RN 56305-33-0 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 3-(1-hydroxycyclopentyl)-2-propynyl ester (9CI) (CA INDEX NAME)

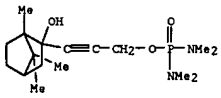
L6 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



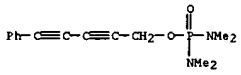
RN 56305-34-1 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 3-(1-hydroxycyclohexyl)-2-propynyl ester (9CI) (CA INDEX NAME)



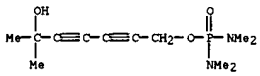
RN 56305-35-2 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 3-(2-hydroxy-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)-2-propynyl ester (9CI) (CA INDEX NAME)



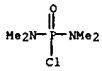
RN 56305-36-3 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 5-phenyl-2,4-pentadiynyl ester (9CI) (CA INDEX NAME)



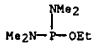
RN 56305-37-4 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 6-hydroxy-6-methyl-2,4-heptadiynyl ester (9CI) (CA INDEX NAME)



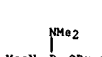
L6 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 3402-24-2 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, ethyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 36055-83-1 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, 1-methylethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:519849 CAPLUS
DOCUMENT NUMBER: 81:119849
TITLE: Novel and versatile synthetic reagent. Monoalkyl esters of tetraalkylphosphorodiamidous acid
AUTHOR(S): Hargis, J. H.; Alley, W. D.
CORPORATE SOURCE: Dep. Chem., Auburn Univ., Auburn, AL, USA
SOURCE: Journal of the American Chemical Society (1974), 96(18), 5927-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Esters (Me2N)2POR (R = Me, PhCH2) have been shown to react rapidly and in good yield with polyhalogenated hydrocarbons CCl4, PhCCl3, and CCl3CO2Et to give RCCl3, RCCl2Ph, and RCCl2CO2Et. A mechanism involving nucleophilic attack of P upon Cl is suggested.

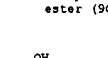
IT 3348-44-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification of)

RN 3348-44-5 CAPLUS
CN Phosphorodiamidous chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

IT 17166-16-4P 53617-91-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with trichloromethyl compds.)

RN 17166-16-4 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, methyl ester (8CI, 9CI) (CA INDEX NAME)

RN 53617-91-7 CAPLUS
CN Phosphorodiamidous acid, tetramethyl-, phenylmethyl ester (9CI) (CA INDEX NAME)



IT 1605-65-8P 3402-24-2P 36055-83-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:47477 CAPLUS
DOCUMENT NUMBER: 80:47477
TITLE: N-Alkyl(or alkenyl) O-(3-chloro-2-butenyl)phosphorodiamidates
INVENTOR(S): Sugiyama, Hiroshige; Takita, Kiyoshi; Ito, Hideo
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 5 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

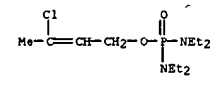
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 48032095	B	19731004	JP 1970-45174	19700528

PRIORITY APPLN. INFO.: JP 1970-45174 19700528

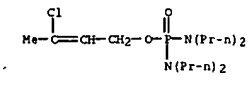
AB R1R2NP(O)(NR3R4)OCH2CH:CClMe (I; R1, R3 = H, alkyl, alkenyl; R2, R4 = alkyl, alkenyl) bactericides and fungicides, were prepared by treating R1R2NP(O)(NR3R4)Cl (II) with MeCCl:CHCH2OH (III). E.g., 19 g II (R1-4 = Et) and 8.5 g III were stirred with 5.8 g KOH and the mixture heated 15 hr at 80-90° to give 82% corresponding I. Similarly prepared were the following I (R1, R2, R3, and R4 given): Pr, Pr, Pr Pr; Me, Me, Me, Me; H, iso-Pr, H, iso-Pr; H, allyl, H, allyl.

IT 51367-86-3P 51367-87-4P 51367-88-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 51367-86-3 CAPLUS
CN Phosphorodiamidic acid, tetraethyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)

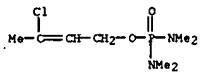


RN 51367-87-4 CAPLUS
CN Phosphorodiamidic acid, tetrapropyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)

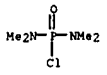


RN 51367-88-5 CAPLUS
CN Phosphorodiamidic acid, tetramethyl-, 3-chloro-2-butenyl ester (9CI) (CA INDEX NAME)

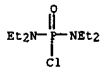
L6 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



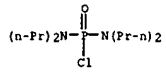
IT 1605-65-8 1794-24-7 40881-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chlorobutenyl alc.)
RN 1605-65-8 CAPLUS
CN Phosphorodiamidic chloride, tetramethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



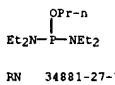
RN 1794-24-7 CAPLUS
CN Phosphorodiamidic chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



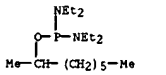
RN 40881-95-6 CAPLUS
CN Phosphorodiamidic chloride, tetrapropyl- (9CI) (CA INDEX NAME)



L6 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

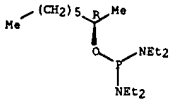


RN 34881-27-1 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 1-methylheptyl ester (9CI) (CA INDEX NAME)

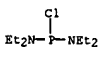


RN 36404-22-5 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 1-methylheptyl ester, (R)- (9CI) (CA INDEX NAME)

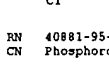
Absolute stereochemistry.



IT 685-83-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with octanol)
RN 685-83-6 CAPLUS
CN Phosphorodiamidous chloride, tetraethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



L6 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:59101 CAPLUS
DOCUMENT NUMBER: 76:59101
TITLE: Preparation of carboxylic esters and phosphoric esters by the activation of alcohols
AUTHOR(S): Mitsunobu, Oyo; Eguchi, Masahiko
CORPORATE SOURCE: Coll. Sci. Eng., Aoyama Gakuin Univ., Tokyo, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1971), 44(12), 3427-30
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 76:59101
AB The reaction of dibenzyl H phosphate with alcs. in the presence of di-Et a zodicarboxylate and PhoP, followed by catalytic hydrogenation, resulted in the formation of the corresponding alkyl di-H phosphates. When p-tolyl di-H phosphate and EtOH were allowed to react with di-Et azodicarboxylate and PhoP, Et p-tolyl H phosphate and di-Et p-tolyl phosphate were obtained. On the other hand, dipyridinium p-tolyl phosphate gave Et p-tolyl H phosphate and di-p-tolyl pyrophosphate. The reaction of alkyl N,N'-tetraethylphosphorodiamidites with carboxylic acids in the presence of di-Et azodicarboxylate resulted in the formation of corresponding carboxylic esters. When these reactions (benzoylation) were carried out with the use of optically active 2-octanol, 2-octyl benzoate was obtained with inverted configuration.
IT 2632-88-4 3402-28-6 3402-30-0
30504-40-6 34881-27-1 36404-22-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acid in presence of diethyl azodicarboxylate)
RN 2632-88-4 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, ethyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 3402-28-6 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, 1-methylethyl ester (9CI) (CA INDEX NAME)

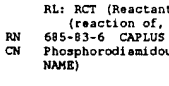
RN 3402-30-0 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, butyl ester (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 30504-40-6 CAPLUS
CN Phosphorodiamidous acid, tetraethyl-, propyl ester (9CI) (CA INDEX NAME)

L6 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1971:488039 CAPLUS
DOCUMENT NUMBER: 75:88039
TITLE: Alkoxy phosphonium salts. I. Preparation, stability, and reactivity of alkoxytris(dimethylamino)phosphonium salts containing primary alkyl groups
AUTHOR(S): Castro, Bertrand; Selve, Claude
CORPORATE SOURCE: Lab. Chim. Org., Fac. Sci., Nancy, Fr.
SOURCE: Bulletin de la Societe Chimique de France (1971), (6), 2296-8
CODEN: BSCFAS; ISSN: 0037-8968
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Primary alkanols were treated with P(NMe2)3-CCl4 to give phosphonium chlorides ROP+(NMe2)3 Cl- (I). I were treated in situ with nucleophiles to give P(O)(NMe2)3 (II). Thus, PhCH2OH was treated with P(NMe2)3-CCl4 to give (benzyloxy)tris(dimethylamino)phosphonium chloride (III) Similarly prepared were I (R = amyl, hexyl, n-heptyl). III was treated with NaN3 to give II and PhCH2N3 Similarly, I were treated with NH4SCN, PhSH, KCN, and KI to give the corresponding RSCN, RSPh, RCN, and RI. RP+(NMe2)3 ClO4- (R = PhCH2O, pentyloxy, hexyloxy, heptyloxy, Cl) was isolated and their NMR spectra taken.
IT 32798-28-0P 32798-29-1P 32798-30-4P
32798-31-5P 32978-11-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32798-28-0 CAPLUS
CN Phosphorus(1+), tris(N-methylmethanaminato)(pentyloxy)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 45168-55-6
CMF C11 H29 N3 O P



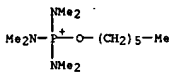
CM 2

CRN 14797-73-0
CMF Cl O4

RN 32798-29-1 CAPLUS
CN Phosphorus(1+), tris(dimethylaminato)(hexyloxy)-, perchlorate (8CI) (CA INDEX NAME)

CM 1

CRN 45188-07-6
CMF C12 H31 N3 O P



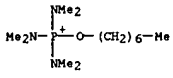
CM 2

CRN 14797-73-0
CMF Cl O4

RN 32798-30-4 CAPLUS
CN Phosphorus(1+), tris(dimethylaminato)(heptyloxy)-, perchlorate (8CI) (CA INDEX NAME)

CM 1

CRN 45213-16-9
CMF C13 H33 N3 O P



CM 2

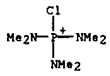
CRN 14797-73-0
CMF Cl O4

RN 32798-31-5 CAPLUS
CN Phosphorus(1+), chlorotris(N-methylmethanaminato)-, (T-4)-, perchlorate

(9CI) (CA INDEX NAME)

CM 1

CRN 32803-80-8
CMF C6 H18 Cl N3 P



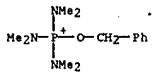
CM 2

CRN 14797-73-0
CMF Cl O4

RN 32978-11-3 CAPLUS
CN Phosphorus(1+), (benzenemethanolato)tris(N-methylmethanaminato)-, (T-4)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 46852-57-7
CMF C13 H25 N3 O P



CM 2

CRN 14797-73-0
CMF Cl O4